

Abdul Rashid Husain

List of Publications by Year in descending order

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76
papers

803
citations

623734

14
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580821

25
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76
all docs

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docs citations

76
times ranked

660
citing authors

#	ARTICLE	IF	CITATIONS
1	A computationally efficient adaptive online state-of-charge observer for Lithium-ion battery for electric vehicle. <i>Journal of Energy Storage</i> , 2022, 49, 104141.	8.1	5
2	Model predictive and fuzzy logic controllers for reactor power control at Reaktor TRIGA PUSPATI. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1231, 012001.	0.6	1
3	A new method for controlling an induction motor using a hybrid discretization model predictive field orientated control. <i>PLoS ONE</i> , 2022, 17, e0267459.	2.5	1
4	Computationally efficient predictive torque control for induction motor drives based on flux positional errors and extended Kalman filter. <i>IET Electric Power Applications</i> , 2021, 15, 653-667.	1.8	1
5	A multipronged core power control strategy for Reaktor TRIGA PUSPATI. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1106, 012001.	0.6	2
6	Effective Formation Tracking of Quadrotors with Intelligent Disturbance Observer-Based Control. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2021, 45, 761-776.	2.3	2
7	Modified model predictive torque control for induction motors with improved robustness against mutual inductance mismatching. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12927.	1.9	1
8	Analysis of Online Lyapunov-Based Adaptive State of Charge Observer for Lithium-Ion Batteries Under Low Excitation Level. <i>IEEE Access</i> , 2020, 8, 178805-178815.	4.2	7
9	Payload swing control of a tower crane using a neural network-based input shaper. <i>Measurement and Control</i> , 2020, 53, 1171-1182.	1.8	25
10	Predictive Flux Control for Induction Motor Drives With Modified Disturbance Observer for Improved Transient Response. <i>IEEE Access</i> , 2020, 8, 112484-112495.	4.2	17
11	Continuous dynamic sliding mode control strategy of PWM based voltage source inverter under load variations. <i>PLoS ONE</i> , 2020, 15, e0228636.	2.5	9
12	Profiling and analysis of control rod speed design on core power control for TRIGA reactor. <i>Progress in Nuclear Energy</i> , 2020, 128, 103481.	2.9	7
13	Trajectory Tracking of a Quadrotor with Disturbance Rejection using Extended State Observer. , 2020, , .		0
14	Adaptive PID actuator fault tolerant control of single-link flexible manipulator. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 1019-1031.	1.7	17
15	Improved unity magnitude input shaping scheme for sway control of an underactuated 3D overhead crane with hoisting. <i>Mechanical Systems and Signal Processing</i> , 2019, 123, 466-482.	8.0	86
16	Disturbance observer-based formation tracking control of multiple quadrotors in the presence of disturbances. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 4129-4141.	1.7	17
17	Controller Synthesis for Steer-by-Wire System Performance in Vehicle. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2019, 43, 813-825.	2.3	12
18	Efficient control of a nonlinear double-pendulum overhead crane with sensorless payload motion using an improved PSO-tuned PID controller. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 907-921.	2.6	29

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19	APPLICATION OF MATLAB-BASED INTERFACE FOR THE CONTROL OF MICROBIOREACTOR OPERATION. Jurnal Teknologi (Sciences and Engineering), 2018, 80, .	0.4	0
20	Control of a gantry crane using input-shaping schemes with distributed delay. Transactions of the Institute of Measurement and Control, 2017, 39, 361-370.	1.7	39
21	Stabilization of Nonlinear Steer-by-Wire System via LMI-Based State Feedback. Communications in Computer and Information Science, 2017, , 668-684.	0.5	1
22	Optimal Formation Control of Multiple Quadrotors Based on Particle Swarm Optimization. Communications in Computer and Information Science, 2017, , 121-135.	0.5	1
23	Robust Control Design of Nonlinear System via Backstepping-PSO with Sliding Mode Techniques. Communications in Computer and Information Science, 2017, , 27-37.	0.5	3
24	Time varying backstepping control for trajectory tracking of mobile robot. International Journal of Computational Vision and Robotics, 2017, 7, 172.	0.3	4
25	Time varying backstepping control for trajectory tracking of mobile robot. International Journal of Computational Vision and Robotics, 2017, 7, 172.	0.3	0
26	FAULT TOLERANT CONTROL FOR SENSOR FAULT OF A SINGLE-LINK FLEXIBLE MANIPULATOR SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	4
27	Delay-dependent robust anti-windup synthesis approach to AQM in TCP/IP networks. , 2016, , .		7
28	Error Handling Algorithm and Probabilistic Analysis Under Fault for CAN-Based Steer-by-Wire System. IEEE Transactions on Industrial Informatics, 2016, 12, 1017-1034.	11.3	23
29	Development of Low-Cost Microcontroller-Based Interface for Data Acquisition and Control of Microbioreactor Operation. Journal of the Association for Laboratory Automation, 2016, 21, 660-670.	2.8	9
30	Linear matrix inequality-based robust proportional derivative control of a two-link flexible manipulator. JVC/Journal of Vibration and Control, 2016, 22, 1244-1256.	2.6	33
31	Robust Backstepping Tracking Control of Mobile Robot Based on Nonlinear Disturbance Observer. International Journal of Electrical and Computer Engineering, 2016, 6, 901.	0.7	4
32	Robust Backstepping Tracking Control of Mobile Robot Based on Nonlinear Disturbance Observer. International Journal of Electrical and Computer Engineering, 2016, 6, 901.	0.7	4
33	Nonlinear stabilization with bounded controller. , 2015, , .		1
34	A time-varying saturated synchronous formation controller for nonholonomic mobile robots. , 2015, , .		1
35	Lyapunov-Krasovskii stability condition for system with bounded delay - An application to steer-by-wire system. , 2015, , .		7
36	Robust precision control for a class of electro-hydraulic actuator system based on disturbance observer. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1753-1760.	2.2	15

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37	GSA-based optimal backstepping controller with a fuzzy compensator for robust control of an autonomous quadrotor UAV. Aircraft Engineering and Aerospace Technology, 2015, 87, 493-505.	0.8	8
38	A hybrid optimal backstepping and adaptive fuzzy control for autonomous quadrotor helicopter with time-varying disturbance. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2178-2195.	1.3	12
39	Stabilization and trajectory tracking control for underactuated quadrotor helicopter subject to wind-gust disturbance. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 1531-1553.	1.3	18
40	Enhanced Backstepping Controller Design with Application to Autonomous Quadrotor Unmanned Aerial Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 295-321.	3.4	73
41	Intelligent adaptive backstepping control for MIMO uncertain non-linear quadrotor helicopter systems. Transactions of the Institute of Measurement and Control, 2015, 37, 345-361.	1.7	51
42	A Universal Formula for Asymptotic Stabilization with Bounded Controls. International Journal of Electrical and Computer Engineering, 2015, 5, 111.	0.7	1
43	Model and Analysis of Wind Speed Profile using Artificial Neural Network - Feasibility Study in Peninsular Malaysia. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	3
44	Intelligent Sliding Mode Controller for Active Suspension System Using Particle Swarm Optimization. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	1
45	Performance Comparison of Particle Swarm Optimization and Gravitational Search Algorithm to the Designed of Controller for Nonlinear System. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.9	8
46	ANFIS modeling of Electro-Hydraulic Actuator system through physical modeling and FCM gap statistic in initial FIS determination. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1743-1755.	1.4	2
47	Analysis of CAN-based 2-DOF SCARA robot performance under work control. , 2014, , .		0
48	Robust Position Tracking Control of an Electro-Hydraulic Actuator in the Presence of Friction and Internal Leakage. Arabian Journal for Science and Engineering, 2014, 39, 2965-2978.	1.1	20
49	Fuzzy supervisory backstepping controller for stabilization of quadrotor unmanned aerial vehicle. , 2014, , .		3
50	An analysis of X-Y table performance via input shaping. , 2014, , .		0
51	System Identification and LMI Based Robust PID Control of a Two-Link Flexible Manipulator. Telkomnika (Telecommunication Computing Electronics and Control), 2014, 12, 829.	0.8	8
52	A new error handling algorithm for controller area network in networked control system. Computers in Industry, 2013, 64, 984-997.	9.9	12
53	Asymptotic Tracking Position Control for Nonlinear Systems using Backstepping Technique. Procedia Engineering, 2013, 53, 255-263.	1.2	5
54	Sliding mode control with switching-gain adaptation based-disturbance observer applied to an electro-hydraulic actuator system. , 2013, , .		3

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55	An analysis of CAN-based steer-by-wire system performance in vehicle. , 2013, , .		3
56	ANFIS modeling and Direct ANFIS Inverse control of an Electro-Hydraulic Actuator system. , 2013, , .		4
57	Observer-Based Output Feedback Control with Linear Quadratic Performance. Procedia Engineering, 2013, 53, 233-240.	1.2	9
58	Formation control of multiple mobile robots utilising synchronisation approach. International Journal of Mechatronics and Manufacturing Systems, 2013, 6, 94.	0.1	4
59	An Approach to Brain Tumor MR Image Detection and Classification using Neuro Fuzzy. Jurnal Teknologi (Sciences and Engineering), 2013, 61, .	0.4	1
60	Switching Between Formation in a Moving Shape for Multi-Robots via Synchronization Approach. Procedia Engineering, 2012, 41, 678-684.	1.2	1
61	Multiple Nonholonomic Wheeled Mobile Robots Trajectory Tracking While Maintaining Time-Varying Formation via Synchronous Controller. Procedia Engineering, 2012, 41, 1044-1050.	1.2	5
62	Control of uncertain nonlinear systems using mixed nonlinear damping function and backstepping techniques. , 2012, , .		7
63	Switching between formations for multiple mobile robots via synchronous controller. , 2012, , .		7
64	Synchronizing Multi-robots in Switching between Different Formations Tasks While Tracking a Line. Communications in Computer and Information Science, 2012, , 28-36.	0.5	1
65	Trajectory tracking of steering system mobile robot. , 2011, , .		9
66	An adaptive control of two wheel inverted pendulum robot based on particle swarm optimization. , 2011, , .		0
67	Static sliding mode controller for permanent magnet stepper motor with disturbances. , 2011, , .		3
68	A modified computational model of ant colony system in DNA sequence design. , 2011, , .		10
69	On the design of output feedback sliding mode control for a class of uncertain system. , 2011, , .		1
70	Dynamic Model and Robust Control of Flexible Link Robot Manipulator. Telkomnika (Telecommunication Computing Electronics and Control), 2011, 9, 279.	0.8	46
71	Dynamic Modelling and Characterisation of a Two-Link Flexible Robot Manipulator. Journal of Low Frequency Noise Vibration and Active Control, 2010, 29, 207-219.	2.9	31
72	A Particle Swarm Optimization Approach to Robotic Drill Route Optimization. , 2010, , .		25

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73	Modeling of a Horizontal Active Magnetic Bearing System with Uncertainties in Deterministic Form. , 2007, , .		4
74	Deterministic Models of an Active Magnetic Bearing System. Journal of Computers, 2007, 2, .	0.4	5
75	A Review on Fault-Tolerant Control for Single-Link Flexible Manipulator System. Applied Mechanics and Materials, 0, 229-231, 2389-2393.	0.2	2
76	Variable Speed Wind Turbine with External Stiffness and Rotor Deviation Observer. Applied Mechanics and Materials, 0, 661, 154-159.	0.2	2